

Product datasheet for **SC104234**

Calcium binding protein P22 (CHP1) (AK093949) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium binding protein P22 (CHP1) (AK093949) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcium binding protein P22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK093949, the custom clone sequence may differ by one or more nucleotides

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GTTGGTTATTTGCCTTTACTTTTATTTATTTGTTTTGATATGTAGATACATTTACATTTTTTATGTAATA
TATCTTTTTAAAAATGGTTTCTGCTTTTCTGAAACATGTTTTCAGAATTTAAAAATGTATATGGAAAAACA
AATTACATGAAAGATTTGAGCATTTCAAAATTTTAAACATAAAAAGCATAAACGTAGATAAAATGAAGGTG
TACTATGATATCTTCAGTTTTATCAGAAATGATGTAAAAATTACAACCTCTTTAAAAAGTAGTGTTAATC
ATTAAGTTAGAAAAATATATAGCTGGGCATGGTGGCAGATGCCTGTAATCCAGCTACATGGGAAGGTGAG
GTGGGAGAATCGCTTGAACCCAGGCAGTGGAGGATGCAGTGAGCCAAGATCATGCCACTGCACCCAGCC
TGGGTGACAGAACAAGACTCCATCTCAAGAAAAAAAAAAAAAAAAAGAAAAATATATATGAACCTTCAGAA
TCTGAGGTATATATAGACAGGTCTTCCCCGTTTCTCTACTTTTTCTGTAGCTTGGAAATAGTCAG
TTTCATCATGCTATAATAAGCTTATCTGAAAGGCAGTAAAGTGATTTTTGTACAACCTTCATTGGCTTTT
TGAGAAGAACATTTTTAGGTTCTTAGTCCCTAGAATTCTGCTGTTTGGTTGAAAAAGAAAGTAATACATT
TTCTTCTATGAAGGATTTCTCAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCTCTTTCA
GCATGGCGTAAGTAAAGACCTTGAAAAATCAGTAATAATGTTTTTACATTTTTAATTCCTCTTTTAAG
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TACTAAGTAAAACAGTAGTTTGAGAGAATTTGTAGTATGCTGCTAATCACCTAAGAAGAAAGTAGAGAT
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GACCTAGACTTTTCTGAATGCATCACTTAATGATAGGGACACATTCTGAGAAATGCGTCATTAGGTGAT
ACCATCATTGTGCAAAACATCACAGAGTGCACCTACACAAACCTAGATAGTGTAGCCTACTAACATCGCAG
TTATATAGTATAGCCTATTGCTCCTAGGCCGCACACCTGTACAGCATATTGTGTACTGAATAATGTAGGC
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CACAAACAAGATTTCTGCCTCCAGCCAAAAAGCTGTAACAGGGACTAGATTTACCCTCTGTCAAAAAAA
GCAGACAAAATATATAAAACAGTGGTTTTTCCAGCGTTGGACAGCAAGCCTTGCTGATAATGATCCCTGAA
AGAAAGGAAACAAATGAGATGGGCCCTAAGAGCACTCCACCTTACTGCCTGGATGGAATTTCCAGGCTGC
ACACAGAGGCTGGAGATGTTGTTGAGTTGAAGAAACAAAGTTCATCTTTCAAGGAGGCTGAGATGGCGAT
AATTTTGCAGGTCAGAGTACTGGAGAGGAAAGATCTGCACAGAGAGAATCTCTGGGAGCTGCATAGAC
TTGCTCATGAGTCAGCAGCTGAGCGTTGATCAGCCCTTTTGTGTGAGGAGACTACTGGAAGTCAGGGAAA
AAATCACTGGAAGCAGCAGACAGAACAGTTTCCAGAGCTCACACAGAGAACATTCATGTTCTCACCAGT
CTGTATGGAAATACCTCTTAACATGACAGGCATTGAATAGAGTCCACAGTAATGGGATCAAATTAATTCT
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AGACCAGCTACCAAAGTTTAAAAGCAAATTTGAAGAGATTAACCTATTTCCAAGTTAATGAAGTATAT
TTCAGAACAACCTTAAATATTTGAGGGAATAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK093949 unedited
 GCGGCAACAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGTGAGGTGG
 GAGAATCGCTTGAACCCAGGCAGTGGAGGATGCAGTGAGCCAAGATCATGCCACTGCACC
 CCAGCCTGGGTGACAGAACAAAGACTCCATCTCAAGAAAAAAAAAAAAAAAAATATAT
 ATGAACTTCAGAACTGAGGTCATATATAGACAGGTCTTCCCCCGTTTCCTCTACTTTT
 TCTTGTAGCTTGAATTAGTCAGTTTCATCATGCTATAATAAGCTTATCTGAAAGGCAGT
 AAAGTGATATTTGTACAACCTTCATTGGCTTTTTGAGAAGAACATTTTTAGGTTCTTAGT
 CCTAGAATTCTGCTGTTTGGTTGGAAAAAGAAAGTAATACATTTTCTCTATGAAGGATT
 TCCTCAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCCCTTTTCAGCATGGC
 GTAAGTAAAGACCTTAAAAATATCAGTGATAATGTTTTTACATTTTAAATTCCTTCTTTT
 AAGTTATAAATTCAAAAGATAGGCAATGAAGACTATCTCTATATACTTGTATGGAGTGAT
 CTTCAGGATAAATTAAGTAAAACAGTAGTTTGAGAGAATNTTGTAGTATGCTGCTAA
 TCACCTAAGAAGAAAGTAGAGATGTAAGTGGATGTATATACTTGTATNGTAATAAATA
 AAAACATAGTATGAAAATNAATAAAACTTAAAAGGGTGGGAGGGGAAATNTTTTTTTTT
 ATGTTTACTCAGTGAGTGTGTAGGAAAAGCAAGGGNTAGACCCTAGACTNTNCTGATGC
 ATCACTTATGATAGGGATACATTCGAGAATGTGTCATTNAGTGATCCATCATTGTGCAA
 CATCACAGATGCACTA

3' Read Nucleotide Sequence:

>OriGene 3' read for AK093949 unedited
 NGGGTATATCTTGNACCGCGCCGAATCTANGATCGGTTTTTTTTTTTTTTTTTTTGTATT
 CCCTCAAATATTAAGGGTTTGTCTGAAAATACTTCATTAACCTGGAAATAGTTAATC
 TCTTCAAATTTGCTTTTAACTTTGTTAGGCTGGTCTAGAACAGCTGTTAGTCTAGATT
 TTTCTTTTCTTTTCTTTTGCCTCTGGTCCAGTCTTGTGATAGAATTAATTTGATCCC
 ATTACTGTGGACTCTATTCAATGCCTGTGATGTTAAGAGGTATTTCCATACAGACTGGTG
 AGAACATGAATGTTCTCTGTGTGAGCTCTGAAACTGTTCTGTCTGCTGCTTTCCAGTGA
 TTTTTCCCTGACTTCCAGTAGTCTCCTCACACAAAAGGGCTGATCAACGCTCAGCTGCT
 GACTCATGAGCAAGTCTATGCAGCTCCCCAGAGAGTCTCTCTGTGCAGATCTTTCCTCT
 CCAGTACTCTGACCTGCAAAATATCGCCATCTCAGCCTCCTTGAAGATGAACCTTGT
 TCTTCAACTCAACAACATCTCCAGCCTCTGTGTGCAGCCTGGAATTCATCCAGGCAGT
 AAGGTGGAGTGTCTTAGGGCCCATCTCATTGTTTCTTTCTTTTCAGGGATCATTATCA
 GCAGGGCTTGTCTCAACGCTGAAAACCACTGTTTTAATATTTTGGCGCTTTTTTTTG
 ACAGGGAGGTAATCTAGTCCCTGTTACAGCTTTTTGCCTGAAGCCTAAATCTTGTGGGG
 ATTTTAAGAATACCCCCCTAAATTAATTTGGTTAAAAATATGAAAAACCAACCTTTGA
 ATTTAAACC

Restriction Sites:

NotI-NotI

ACCN:

AK093949

Insert Size:

2000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	AK093949.1
RefSeq Size:	2274 bp
RefSeq ORF:	2274 bp
Locus ID:	11261
Cytogenetics:	15q15.1
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Axon guidance, B cell receptor signaling pathway, Calcium signaling pathway, Long-term potentiation, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Oocyte meiosis, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
Gene Summary:	This gene encodes a phosphoprotein that binds to the Na ⁺ /H ⁺ exchanger NHE1. This protein serves as an essential cofactor which supports the physiological activity of NHE family members and may play a role in the mitogenic regulation of NHE1. The protein shares similarity with calcineurin B and calmodulin and it is also known to be an endogenous inhibitor of calcineurin activity. [provided by RefSeq, Jul 2008]